

Listing of Claims:

1. (Previously amended) An isolated nucleic acid encoding a tumor suppressor polypeptide p33ING2 that specifically hybridizes under stringent conditions, wherein the hybridization reaction is incubated at 42°C in a solution comprising 50% formamide, 5x SSC, and 1% SDS and washed at 65°C in a solution comprising 0.2x SSC and 0.1% SDS, to a nucleic acid comprising a nucleotide sequence of SEQ ID NO:2.
2. (Canceled).
3. (Original) The isolated nucleic acid of claim 1, wherein the nucleic acid encodes a polypeptide comprising an amino acid sequence of SEQ ID NO:1.
4. (Original) The isolated nucleic acid sequence of claim 1, wherein the nucleic acid comprises a nucleotide sequence of SEQ ID NO:2.
5. (Original) The isolated nucleic acid of claim 1, wherein the nucleic acid is from a human.
6. (Previously amended) The isolated nucleic acid of claim 1, wherein the nucleic acid is amplified by primers that selectively hybridize under stringent hybridization conditions, wherein the hybridization reaction is incubated at 42°C in a solution comprising 50% formamide, 5x SSC, and 1% SDS and washed at 65°C in a solution comprising 0.2x SSC and 0.1% SDS; to a nucleotide sequence, wherein the nucleotide sequence also hybridizes under stringent conditions to degenerate primer sets encoding amino acid sequences selected from the group consisting of SEQ ID NO:3 (MLGQQQQ) and SEQ ID NO:4 (KKDRRSR).

7. (Original) The isolated nucleic acid of claim 1, wherein the nucleic acid encodes a polypeptide having a molecular weight of about 28 kDa to about 38 kDa.

8. (Canceled).

9. (Previously amended) The isolated nucleic acid of claim 1, wherein said nucleic acid selectively hybridizes under moderately stringent hybridization conditions, wherein the hybridization reaction is incubated at 37°C in a solution comprising 40% formamide, 1 M NaCl, and 1% SDS and washed at 45°C in a solution comprising 1x SSC, to a nucleic acid comprising a nucleotide sequence of SEQ ID NO:2.

10-19. (Cancelled).

20. (Original) An expression vector comprising the nucleic acid of claim 1.

21. (Original) A host cell transfected with the vector of claim 20.

22-57. (Cancelled).